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PHOTOGRAPHIC INTERPRETATION REPORT

AIRCRAFT ENGINE PLANT NO 154 VORONEZH, USSR



CIA



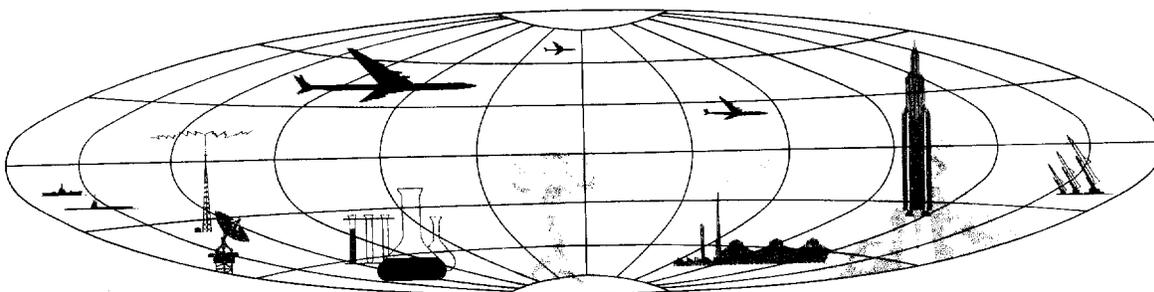
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AIRCRAFT ENGINE PLANT NO 154, VORONEZH, USSR

The Voronezh Aircraft Engine Plant No 154 is located at 51-38N 39-11E on the western edge of Voronezh, USSR, and 4 nautical miles (nm) north of the Voronezh Rocket Test Facility (Figures 1 and 2). The first aerial photography of this plant was obtained by the Germans in 1943. The plant is rail served and appears to be operational. It is surrounded by a wall, and guardhouses are situated at some of the entrances. At least four guard towers were observed inside the plant. The principal components of the plant are described in the following

paragraphs. Item numbers are keyed to Figure 3.

Assembly-type Building (item 1). This building was in the early stages of construction in [redacted] and had been completed by [redacted]. A wall may separate this building from the rest of the plant. Dimensions: 1,060 by 450 feet; roof cover: 477,000 square feet.

Main Assembly Building (item 2). This building existed in 1943. Dimensions: 770 by 600 feet; roof cover: 462,000 square feet.

Foundry/Machine Shop (item 3). The found-

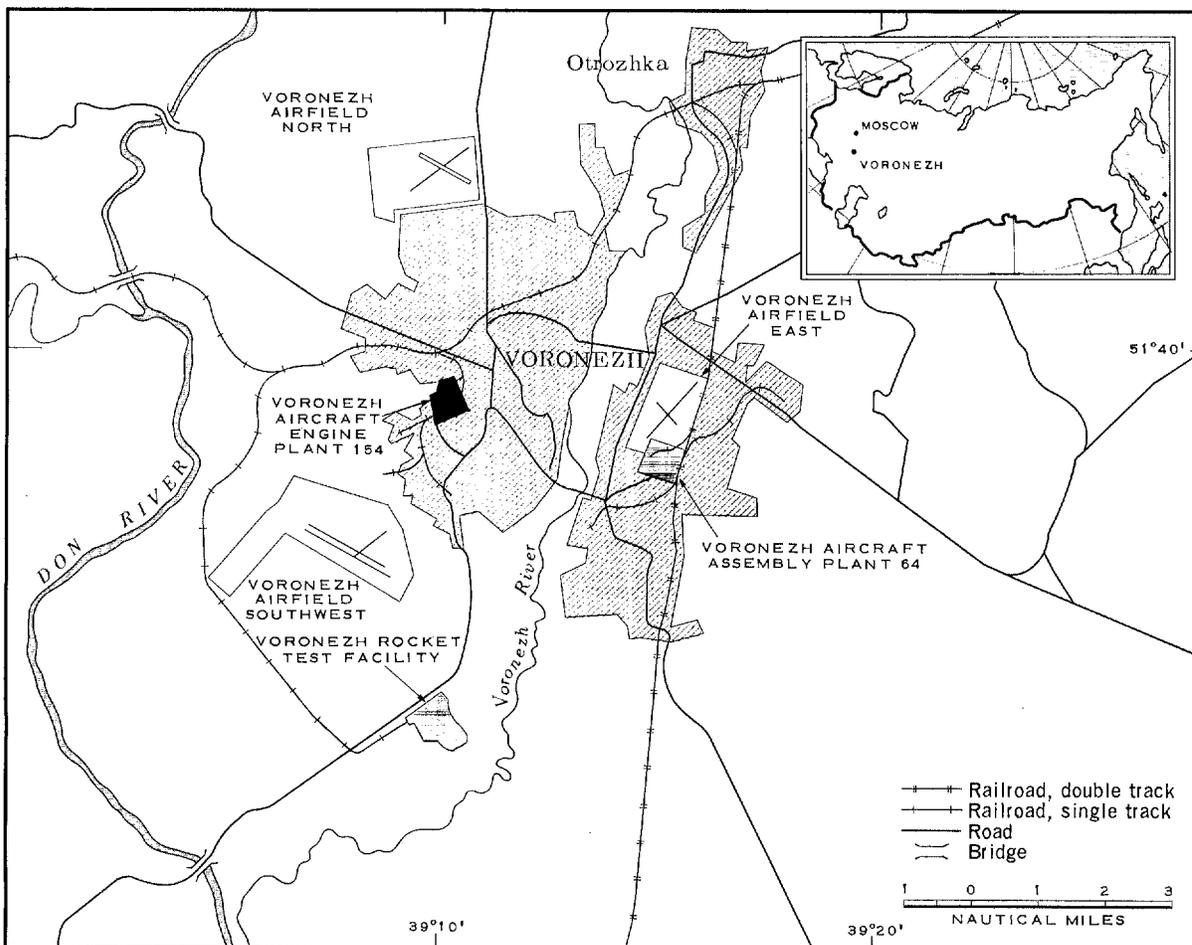


FIGURE 1. LOCATION MAP.

NPIC J-4913 (10/64)

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FIGURE 2. AIRCRAFT ENGINE PLANT NO 154, VORONEZH, USSR, [REDACTED]

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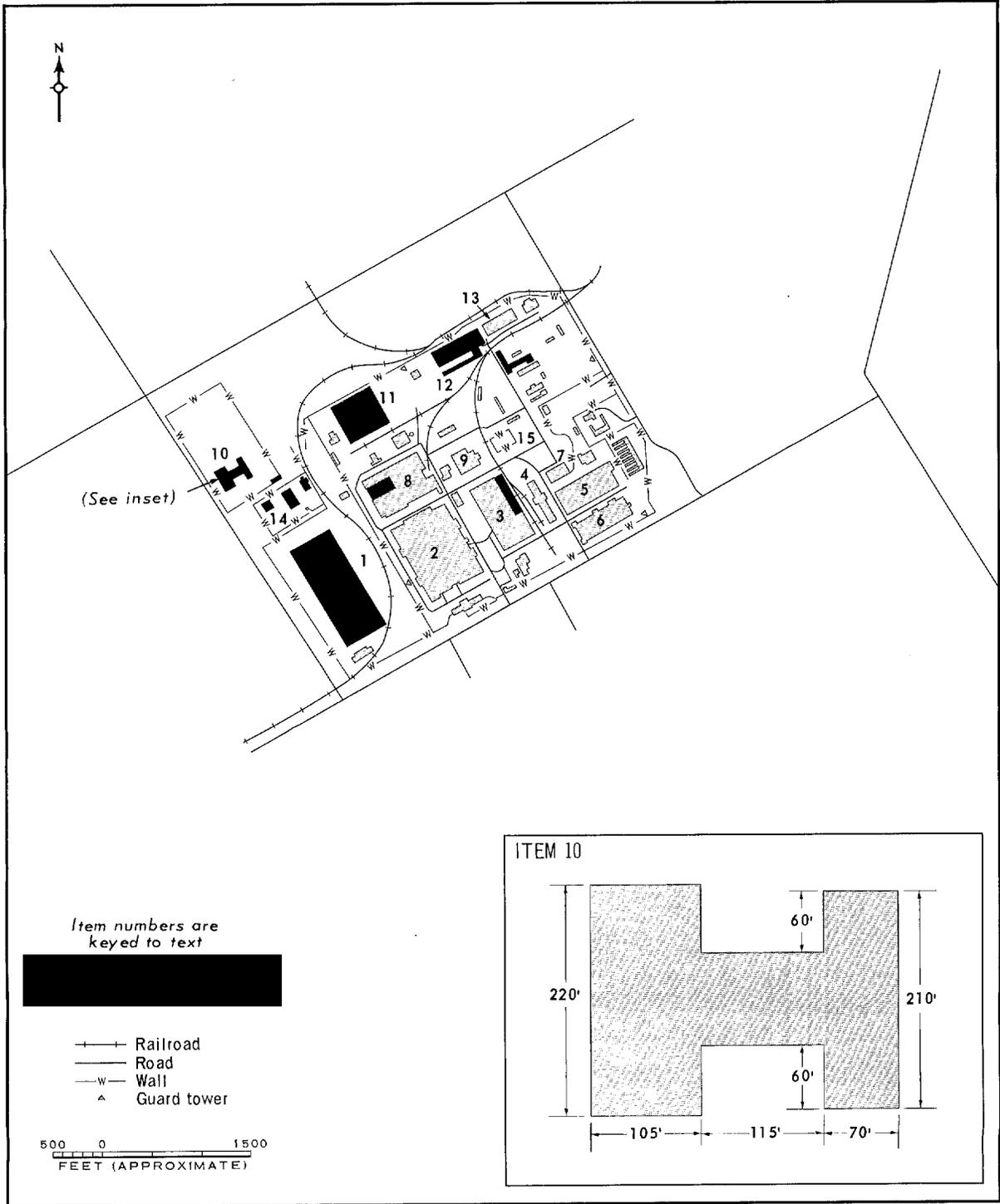
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FIGURE 3. VORONEZH AIRCRAFT ENGINE PLANT NO 154.

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ry section with a roof cover of 90,000 square feet existed in 1943. By [redacted] the building had been expanded and had a roof cover of 195,000 square feet, and in [redacted] the shop was slightly enlarged. This shop is rail served. Dimensions: 640 by 350 feet; roof cover: 224,000 square feet.

Heat Treatment Shop (item 4). This shop existed in 1943. Dimensions: 430 by 80 feet; roof cover: 34,400 square feet.

Machine Shop/Forge (item 5). This building existed in 1943; the forge is probably situated in the northeast end of the building. Dimensions: 590 by 250 feet; roof cover: 147,500 square feet.

Machine Shops (items 6 and 7). Both shops were part of the plant in 1943. Dimensions (item 6): 550 by 210 feet; roof cover: 115,500 square feet. Dimensions (item 7): 210 by 130 feet; roof cover: 27,300 square feet.

Engine Test and Final Assembly Building (item 8). This building houses 22 U-type engine test cells, 6 of which are [redacted] square and 16 of which are 20 feet square. 1/ No test cells have been added since 1943. The final assembly section at the rear of the test cells has been expanded approximately 30 percent since [redacted]. The building is rail served.

Dimensions: 600 by 380 feet; roof cover: 228,000 square feet.

Foundry (item 9). This foundry existed in 1943.

Dimensions: 210 by 190 feet; roof cover: 39,900 square feet.

H-Shaped Building (item 10). This building was in the early stages of construction in [redacted] and had been completed by [redacted]. It is situated at the southern end of a separately walled area, and only one entrance was discernible near the northwest corner of the area. Although it is H-shaped, this building is not identical to the H-

shaped structures observed at the Biysk and Sterlitamak Probable Propellants Test Facilities.*

Dimensions: irregular (inset, Figure 3); roof cover: 48,200 square feet.

Assembly Building (item 11). Construction on this building began in [redacted] and was completed in [redacted].

Dimensions: 385 by 350 feet; roof cover: 134,800 square feet.

Probable Boxing and Shipping Building (item 12). This building was not discernible on the [redacted] photography. By [redacted] it had been completed. Dimensions: 460 by 160 feet; roof cover: 73,600 square feet.

Probable Maintenance and Support Building (item 13). The location of this building suggests a support function rather than one of production. Dimensions: 330 by 125 feet; roof cover: 41,300 square feet.

Secured Area (item 14). A separately secured area near the western edge of the plant contains five buildings, three of which are of significant size. Two of the three buildings were under construction in [redacted] and the third has been completed since then.

Dimensions: 100 by 50 feet, 120 by 70 feet, and 100 by 80 feet; total roof cover: 21,400 square feet.

Open Storage Area (item 15). A walled open storage area containing several rows of unidentified objects was observed approximately in the center of the plant.

In [redacted] the Voronezh Aircraft Engine Plant No 154 had a total roof cover of 1,474,900 square feet, an increase of 361,000 square feet since 1943. 1/ New construction observed from [redacted] to [redacted] provided an additional 754,900 square feet of roof cover, bringing the total roof cover to 2,229,800 square feet.

*Detailed reports on the Biysk and Sterlitamak Probable Propellants Test Facilities are being prepared for publication under NPIC project number N-863/64.

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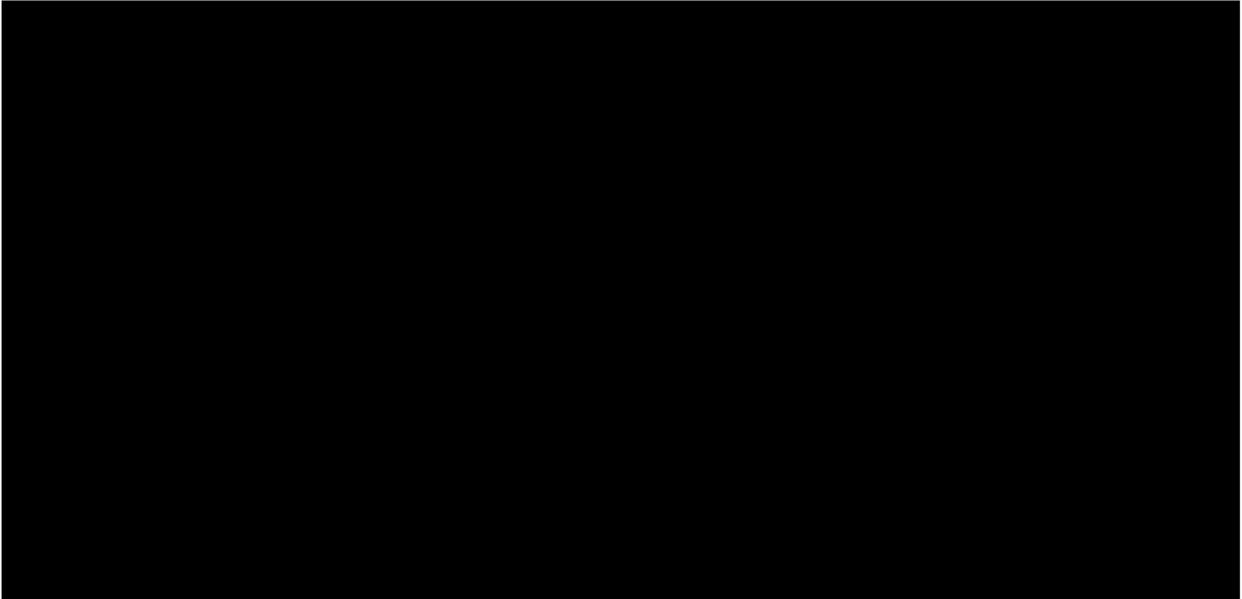
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REFERENCES

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PHOTOGRAPHY



CHART

SAC. US Air Target Chart, Series 200, Sheet 0234-311L, 3d ed, Jan 64, scale 1:200,000 (SECRET)

DOCUMENT

1. PIC. R-10/60, *Aircraft Engine Plant 154, Voronezh, USSR*, Sep 60 (TOP SECRET CHESS)

REQUIREMENT

CIA. C-RR4-81,679

NPIC PROJECT

N-863/64 (partial answer)

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